CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377

Job No.: CTCE/BBMP/W.No.11/TJ/CSR-08/121b/CEMENT/2016-17 Date: 19.08.2016

TEST REPORT ON CEMENT

* CUSTOMER	:	**Asst. Executive Engineer**, Vidyaranyapura Sub Division, BBMP, Bangalore.
*AGENCY	:	**Mr. T. Jayaprakash,** #3471, 1st Main Road, 7th Cross, Gayathrinagara, Bangalore – 21.
*NAME OF THE WORK	:	Improvements to balance Roads and Drains at Kuvempunagar 2nd Stage & surrounding roads in Ward No.11, Vidyaranyapura Sub Division, BBMP, Bangalore.
*REFERENCE	:	AEE/BBMP/VSD/PR/337/2016-17 Dated: 18.08.2016
SAMPLE ID	:	Cement – Sample 2
SAMPLE RECEIVED ON	:	18.08.2016
PERIOD OF TESTING	:	18.08.2016 to 19.08.2016

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4) 1988(RA-2009)	30.00 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) 1988(RA-2009)	160 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988(RA-2009)	490 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartlier Method	IS-4031 (Part-3) 1988(RA-2009)	1 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

AEE (VRP) SD

Note:

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⇒ Any Query regarding the report must be reported within 30 days from the date of testing.

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Chief Executive Officer

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T-2377

Job No.: CTCE/BBMP/W.No.11/TJ/CSR-08/121b/SAND-Gradation/2016-17 : 19.08.2016

TEST REPORT ON DETERMINATION GRADATION OF FINE AGGREGATES

* Customer	: **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
* Agency	: **Mr. T. Jayaprakash,** #3471, 1st Main Road, 7th Cross, Gayathrinagara, Bangalore – 21.
* Name of Work	: Improvements to balance Roads and Drains at Kuvempunagar 2nd Stage & surrounding roads in Ward No.11, Vidyaranyapura Sub Division, BBMP, Bangalore.
Reference	: AEE/BBMP/VSD/PR/337/2016-17 Dated: 18.08.2016
Technical Reference	: IS : 2386 Part 1 - 1963 RA-2007
Sample ID	: Fine Aggregate - Sample 2
Sample Received on	: 18.08.2016
Date of Testing	: 19.08.2016

Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2007)			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	97.00	90-100	90-100	90-100	95-100
2.36	79.50	60-95	75-100	85-100	95-100
1.18	56.90	30-70	55-90	75-100	90-100
600 Micron	27.10	15-34	35-59	60-79	80-100
300 Micron	14.60	5-20	8-30	12-40	15-50
150 Micron	6.10	0-10	0-10	0-10	0-15

* Information is furnished by the Customer/Representative

Remarks : This sample is under Zone-I specific limits.

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Job No.: CTCE/BBMP/W.No.11/TJ/CSR-08/121b/AGG/GR/2016-17 : 19.08.2016

TEST REPORT ON DETERMINATION GRADATION OF COARSE AGGREGATES

* Customer	: **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
* Agency	: **Mr. T. Jayaprakash,** #3471, 1st Main Road, 7th Cross, Gayathrinagara, Bangalore – 21.
* Name of Work	: Improvements to balance Roads and Drains at Kuvempunagar 2nd Stage & surrounding roads in Ward No.11, Vidyaranyapura Sub Division, BBMP, Bangalore.
Reference	: AEE/BBMP/VSD/PR/337/2016-17 Dated: 18.08.2016
Technical Reference	: IS : 2386 Part 1 -1963 RA-2007
Sample ID	: Coarse Aggregates (40mm) - Sample 2
Sample Received on	: 18.08.2016
Date of Testing	: 19.08.2016

Total Wt. of Aggregates in gms= **7000**

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2007)	
		Graded	Single Sized
80	100	100	-
63	100	-	100
40	97.74	95-100	85-100
20	33.56	30-70	0-20
10	13.19	10-35	0-5
4.75	1.04	0-5	-

* Information is furnished by the Customer/Representative

Remarks : This sample is under Graded specific limits.

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T-2377

Job No.: CTCE/BBMP/W.No.11/TJ/CSR-08/121b/CUBE/2016-17 21.09.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer : **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.

* Agency : **Mr. T. Jayaprakash,** #3471, 1st Main Road, 7th Cross, Gayathrinagara, Bangalore – 21.

* Name of the work : Improvements to balance Roads and Drains at Kuvempunagar 2nd Stage & surrounding roads in Ward No.11, Vidyaranyapura Sub Division, BBMP, Bangalore.

* Reference : AEE/BBMP/VSD/PR/337/2016-17 Dated: 18.08.2016

* Sample ID : Road Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

* Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sample Received on : 21.09.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	24.08.2016	21.09.2016	8.190	482.2	21.43
2	24.08.2016	21.09.2016	8.227	493.5	21.93
3	24.08.2016	21.09.2016	8.352	510.2	22.68

* Information is furnished by the Customer/Representative

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T-2377

Job No.: CTCE/BBMP/W.No.11/TJ/CSR-08/121b/CUBE/2016-17 21.09.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	: **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
* Agency	: **Mr. T. Jayaprakash,** #3471, 1st Main Road, 7th Cross, Gayathrinagara, Bangalore – 21.
* Name of the work	: Improvements to balance Roads and Drains at Kuvempunagar 2nd Stage & surrounding roads in Ward No.11, Vidyaranyapura Sub Division, BBMP, Bangalore.
* Reference	: AEE/BBMP/VSD/PR/337/2016-17 Dated: 18.08.2016
* Sample ID	: Road Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
* Grade of Concrete	: M_{20}
Compressive Strength as on	: 28th day
Sample Received on	: 21.09.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	24.08.2016	21.09.2016	8.102	478.3	21.26
2	24.08.2016	21.09.2016	8.225	493.2	21.92
3	24.08.2016	21.09.2016	8.332	502.3	22.32

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Job No.: CTCE/BBMP/W.No.11/TJ/CSR-08/121b/CUBE/2016-17 23.09.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	: **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
* Agency	: **Mr. T. Jayaprakash,** #3471, 1st Main Road, 7th Cross, Gayathrinagara, Bangalore – 21.
* Name of the work	: Improvements to balance Roads and Drains at Kuvempunagar 2nd Stage & surrounding roads in Ward No.11, Vidyaranyapura Sub Division, BBMP, Bangalore.
* Reference	: AEE/BBMP/VSD/PR/337/2016-17 Dated: 18.08.2016
* Sample ID	: Road Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
* Grade of Concrete	: M_{20}
Compressive Strength as on	: 28th day
Sample Received on	: 23.09.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	26.08.2016	23.09.2016	8.125	485.5	21.58
2	26.08.2016	23.09.2016	8.238	493.8	21.95
3	26.08.2016	23.09.2016	8.336	502.9	22.35

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Job No.: CTCE/BBMP/W.No.11/TJ/CSR-08/121b/CUBE/2016-17 23.09.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer : **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.

* Agency : **Mr. T. Jayaprakash,** #3471, 1st Main Road, 7th Cross, Gayathrinagara, Bangalore – 21.

* Name of the work : Improvements to balance Roads and Drains at Kuvempunagar 2nd Stage & surrounding roads in Ward No.11, Vidyaranyapura Sub Division, BBMP, Bangalore.

* Reference : AEE/BBMP/VSD/PR/337/2016-17 Dated: 18.08.2016

* Sample ID : Road Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

* Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sample Received on : 23.09.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	26.08.2016	23.09.2016	8.125	475.5	21.13
2	26.08.2016	23.09.2016	8.229	493.2	21.92
3	26.08.2016	23.09.2016	8.335	510.2	22.68

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Job No.: CTCE/BBMP/W.No.11/TJ/CSR-08/121b/CUBE/2016-17 26.09.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer : **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.

* Agency : **Mr. T. Jayaprakash,** #3471, 1st Main Road, 7th Cross, Gayathrinagara, Bangalore – 21.

* Name of the work : Improvements to balance Roads and Drains at Kuvempunagar 2nd Stage & surrounding roads in Ward No.11, Vidyaranyapura Sub Division, BBMP, Bangalore.

* Reference : AEE/BBMP/VSD/PR/337/2016-17 Dated: 18.08.2016

* Sample ID : Road Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

* Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sample Received on : 26.09.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	29.08.2016	26.09.2016	8.226	482.3	21.44
2	29.08.2016	26.09.2016	8.315	496.3	22.06
3	29.08.2016	26.09.2016	8.415	512.2	22.76

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Job No.: CTCE/BBMP/W.No.11/TJ/CSR-08/121b/CUBE/2016-17 26.09.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer : **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.

* Agency : **Mr. T. Jayaprakash,** #3471, 1st Main Road, 7th Cross, Gayathrinagara, Bangalore – 21.

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* Reference : AEE/BBMP/VSD/PR/337/2016-17 Dated: 18.08.2016

* Sample ID : Road Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

* Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sample Received on : 26.09.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	29.08.2016	26.09.2016	8.182	485.5	21.58
2	29.08.2016	26.09.2016	8.295	493.5	21.93
3	29.08.2016	26.09.2016	8.336	512.3	22.77

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